

FIG. 1

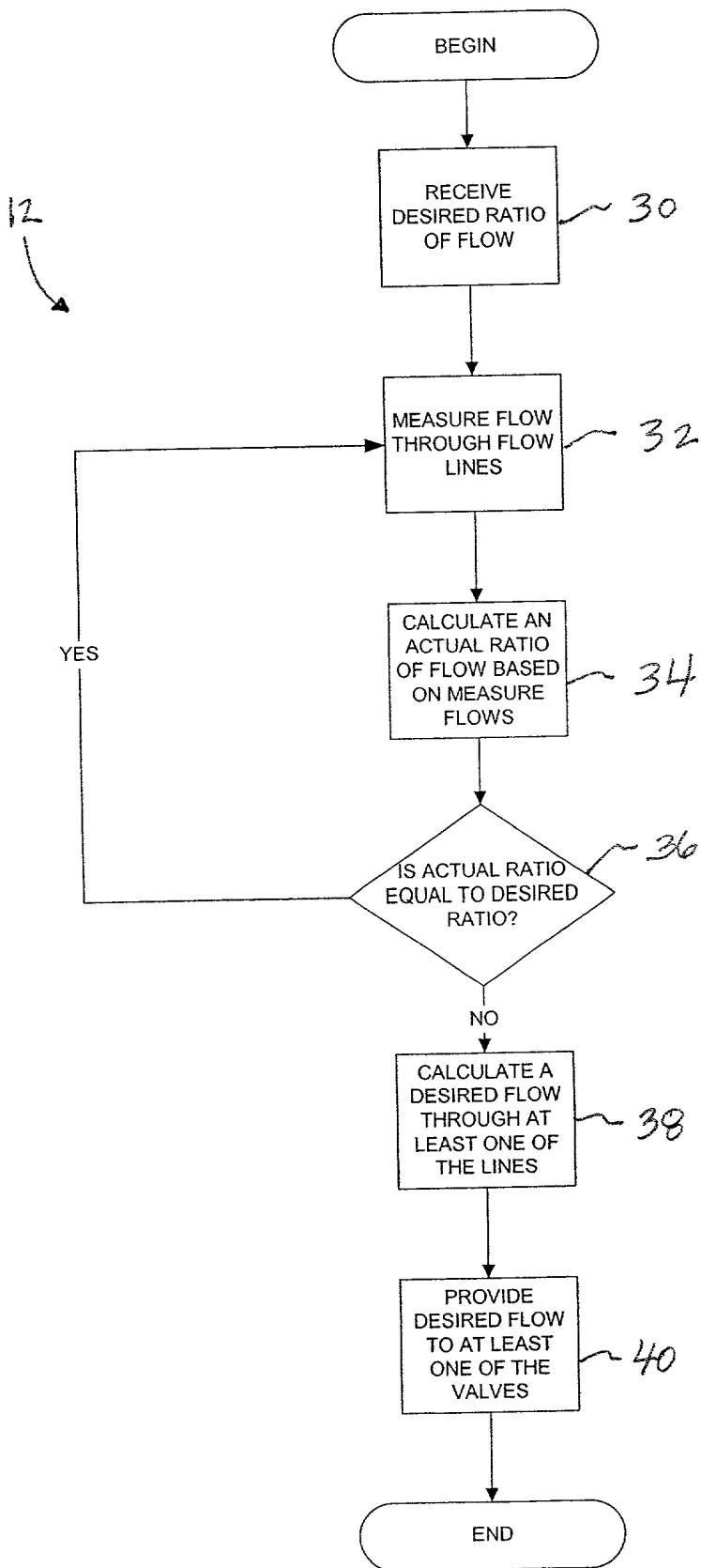


FIG. 2

Alpha Control Range $\bar{Q}_{min} = 100 \text{ sccm}$

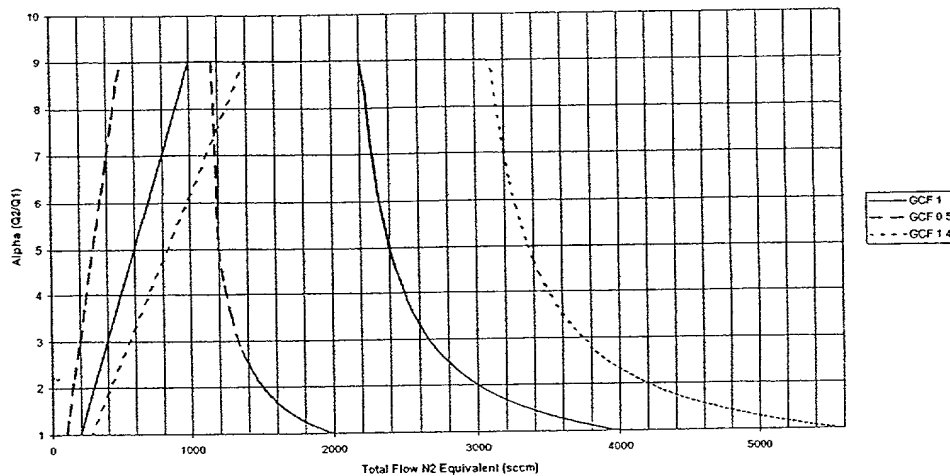


FIG. 3

Alpha Control Range $\bar{Q}_{min} = 200 \text{ sccm}$

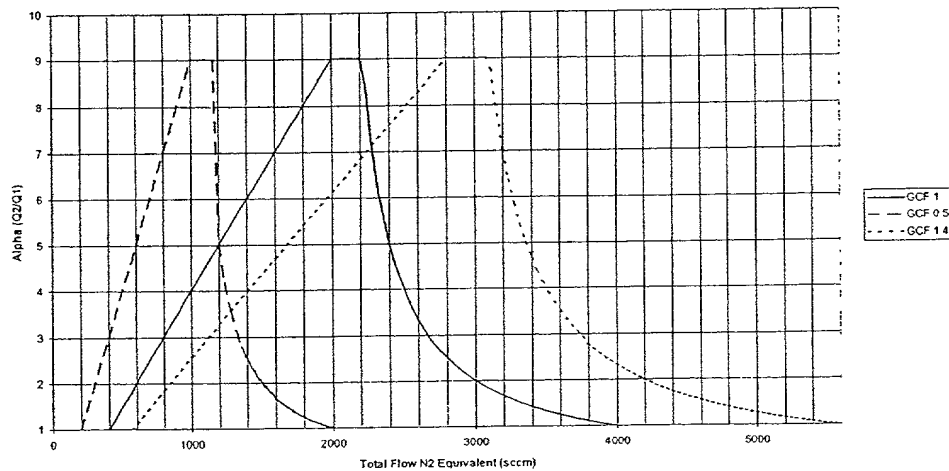


FIG. 4

User interface - 15 D connector Pin out:

Pin	Assignment	Description
1	NC	
2	Flow Ratio Output	0 – 5 Volts, 5mA max 1 = 1:1, 5 = 10:1
3	NC	
4	Valves open	TTL low = valve open
5	Power Common	Power Supply Return
6	-15 VDC Supply	1% Regulated 1 Amp max
7	+15 VDC Supply	1% Regulated 1 Amp max
8	Flow Ratio Command	0 – 5 Volts
9	ALARM	Alpha out of range
10	NC	
11	Signal Common	
12	Signal Common	
13	Disable	TTL low disables the device (Valves shut)
14	Ratio Range Switch	Low = Alpha from 0.1:1 High=1:10
15	Chassis Ground	

FIG. 5

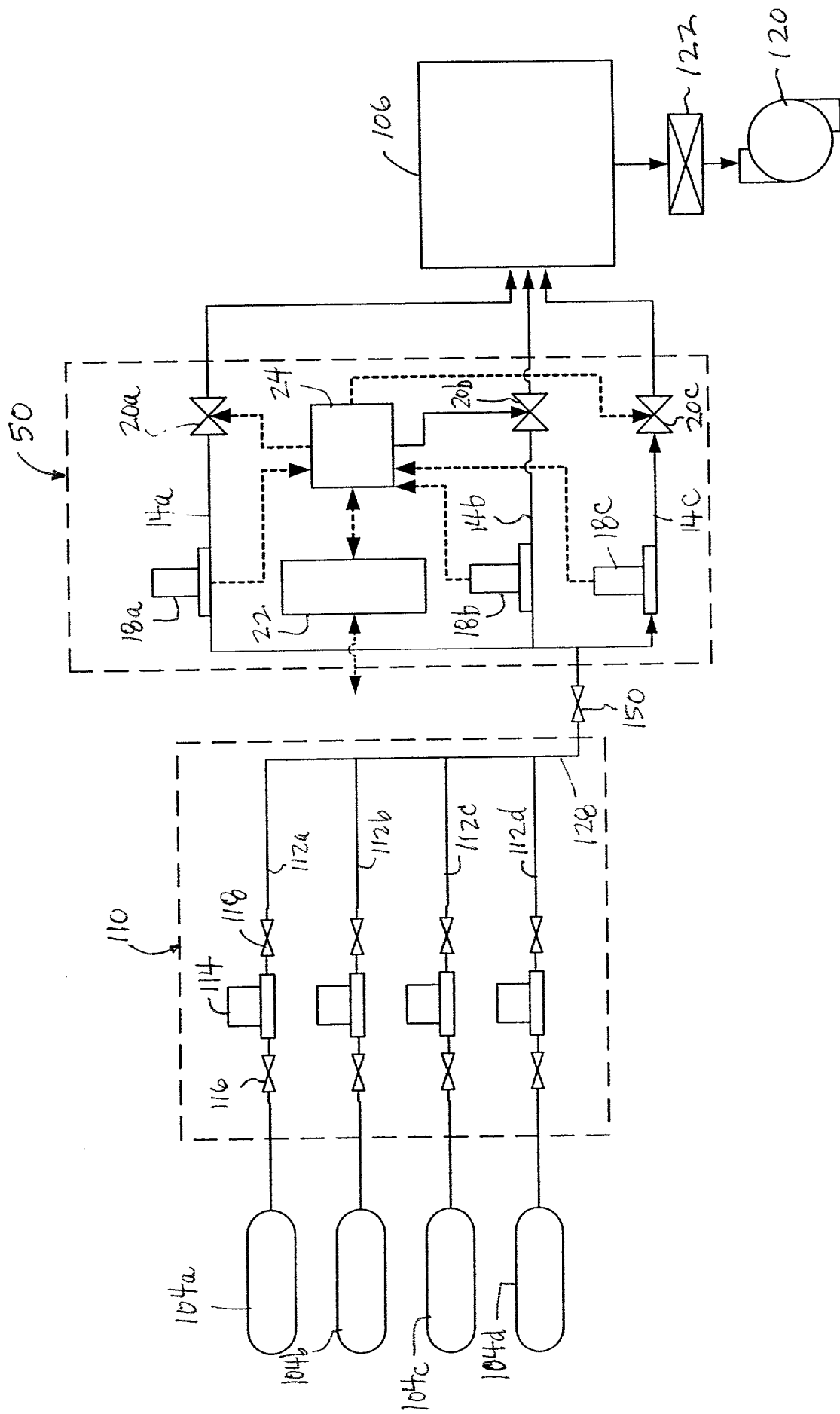


FIG. 6

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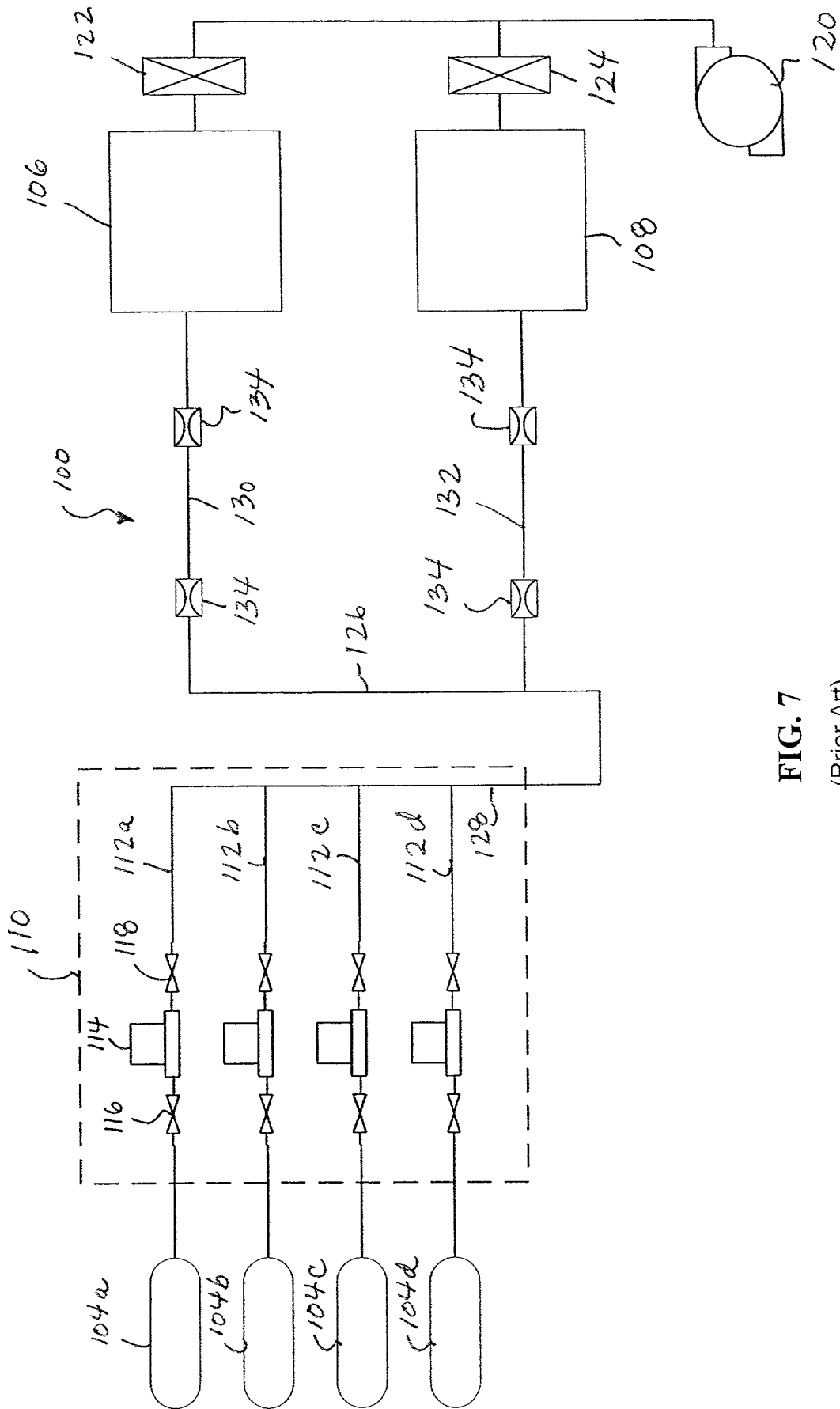


FIG. 7
(Prior Art)

